'Sequence Listing." § 1.821(c).

ments of paragraph (a) of § 1.823.

700-

Randal J. Kaufman 07/621,092 November 30, 1990

JAN 18 COT

NOTICE TO COMPLY WITH REQUIREMENTS FOR PATENT APPLICATIONS CONTAINING NUCLEOTIDE SEQUENCE AND/OR AMINO ACID SEQUENCE DISCLOSURES

This application contains sequence disclosures that are encompassed by the definitions for nucleotide and/or amino acid sequences set forth in 37 CFR § 1.821(a)(1) and (a)(2). However, this application fails to comply with one or more of the requirements of 37 CFR §§ 1.821 through 1.825 as follows:

1. This application clearly fails to comply with the collective requirements of §§ 1.821 through 1.825. Applicant's attention is directed to these regulations, a copy of which is attached.

2. This application does not conform exclusively to the requirements of §§ 1.821 through 1.825. The non-conforming material should be deleted. § 1.821(b).

4. This application does contain, as a separate part of the disclosure on paper copy, a "Sequence Listing." However, the "Sequence Listing" does not comply with the requirements of §§ 1.821 through 1.825 as follows:
a. The sequence data does not comply with the symbol and format requirements of

c. The "Sequence Listing" does not comply with the information requirements of paragraph (b) of § 1.823. Specifically:

		•
	5. The description and/or claims of the patent application me	ention a sequence that is set
forth in	the "Sequence Listing" but reference is not properly made to the	he sequence by use of a
sequenc	e identifier as required by § 1.821(d).	

6. A copy of the "Sequence Listing" in computer readable form has not been submitted as required by § 1.821(e).

7. A copy of the "Sequence Listing" in computer readable form has been submitted. However, the computer readable form does not comply with the requirements of § 1.824. Specifically:

SEE ATTACHED RAW SEQUENCE LISTING.

8. A statement that the content of the paper and computer readable copies are the same has not been submitted as required by § 1.821(f).

9. The amendment to or replacement of the paper and/or computer readable copies of the "Sequence Listing" does not comply with the requirements of § 1.825(a) through (c).

10. The computer readable form that has been filed with this application has been found to be damaged and/or unreadable. Applicant must provide a substitute copy of the data in computer readable form accompanied by a statement that the substitute data is identical to that originally filed. § 1.825(d). Specifically:

11. Other: _____

APPLICANT IS GIVEN ONE MONTH FROM THE DATE OF THIS LETTER WITHIN WHICH TO COMPLY WITH THE ABOVE REQUIREMENTS. Failure to comply with the above requirements will result in ABANDONMENT of the application under 37 CFR 1.821(g). Extensions of time may be obtained by filing a petition accompanied by the extension fee under the provisions of 37 CFR § 1.136. Direct the response to, and any questions about, this notice to the undersigned. A copy of this notice MUST be returned with your response.

For: N44:ager, Application Processing Davision (703) 3(8-1202 or 208-1203

E amining Group _____

ち

#6

Page: 1

Raw Sequence Listing

01/24/91 08:57:44

1 2		SEQUENCE LISTING
3		
4		
5	(1) GENE	RAL INFORMATION:
6		
7	(i)	APPLICANT: Kaufman, Randal J.
8		Wasley, Louise
9 10	/::>	MIMIE OF THUMINGOUS WALLS OF THE STATE OF TH
11	(11)	TITLE OF INVENTION: Method of Increasing Yield of Mature Proteins
12		mature Proteins
13	(iii)	NUMBER OF SEQUENCES: 2
14	(111)	NONDER OF BEGODINGED. Z
15	(iv)	CORRESPONDENCE ADDRESS:
16	\/	
17		(A) ADDRESSEE: Genetics Institute, Inc.
18		(B) STREET: 87 CambridgePark Drive
19		(C) CITY: Cambridge
20		(D) STATE: Massachusetts
21		(E) COUNTRY: United States of America
22		(F) ZIP: 02140
23		
24	(v)	COMPUTER READABLE FORM:
25		
26	•	(A) MEDIUM TYPE: Diskette, 3.50 inch, 720 Kb storage
27 28		(B) COURTED. TRY BG/2
29		(B) COMPUTER: IBM PS/2
30		(C) OPERATING SYSTEM: PC-DOS
31		(C) OF BRAITING SISIEM. PC-BOS
32		(D) SOFTWARE: WordPerfect 5.1
33		(5) 250 2111 212 2000 311
34	(vi)	CURRENT APPLICATION DATA:
35		
36		(A) APPLICATION NUMBER: 07/621092
37		•
38		(B) FILING DATE: 26-NOV-1990
39		
40		(C) CLASSIFICATION: 424
41		
42 43	(Vii)	PRIOR APPLICATION DATA: not applicable
44		(A) ADDITALMIAN NUMBER
45		(A) APPLICATION NUMBER:
46		(B) FILING DATE:
47		(b) FILING DATE:
48	(viii)	ATTORNEY/AGENT INFORMATION
49	()	
50		(A) NAME: Ellen J. Kapinos, Esquire
51		(B) REGISTRATION NUMBER: 32,245
52		(C) REFERENCE/DOCKET NUMBER: GI 5181
53	·	· · · · · · · · · · · · · · · · · · ·

Raw Sequence Listing

01/24/91 08:57:47

54	(ix)	TEL	ECOM	MUNI	CATI	ON I	NFOR	ITAM	ON:				
55													
56		(A)	TE	LEPH	ONE:	(61	7) 8	76-1	170				
57		(B)	TE	LEFA:	X: (617)	876	-585	1				
58													
59 60	(2) IN	FORM	ATIO	N FO	R SE	Q ID	NO:	1					
61	(i) SI	EQUE	NCE (CHAR	ACTE	RIST:	ics:					
62													
63		(2	A) 1	LENG:	TH:	2385	bas	e pa	irs				
64													
65		(1	B) !	TYPE	: n	ucle	ic a	cid					
66							_						
67		(C) :	STRAI	NDED	NESS	: d	oubl	В				
68		4.			•								
69 70		(1	D) !	ropo.	rodā	: u	nkno	wn					
71	(ii	\ M	OT EC		nvpr			1 h	m n m			DATE	
72	(11	<i>,</i> M	OLEC	OLE .	LIPE	. pa	rtia.	ı nu	пап	geno:	nic .	DNA	
73		()	מ וב	ESCR	τρπτ	on.	sequ	ance	ence	ndin	~ f	rin	
74		(.	., 2	DOCK.		J	sequ.	ence	enc.	Juli	y Iu.	1 111	
75	(iii) H	YPOT	HETI	CAL:	no							
76	,	, –											
77	(iv) Al	NTI-	SENS	E: ;	no							
78	`	•											
79	(v) Pi	UBLI	CATI	ON I	NFORI	MATI	ON:	A.M.	W. V	an d	en Oı	weland et
80													664 (1990)
81												-	` ,
82	(vi) SI	EQUE	NCE 1	DESC	RIPT	ION:	SE	Q ID	NO:	1		
83													
84	ATG GAG												21
85	Met Glu	Leu	Arg		Trp	Leu							
86	1			5									
87	CD3												
88 89	CTA TGG												60
90	Leu Trp	10	VAI	ATA	ALA	Thr		Thr	Leu	Val	Leu		
91		10					15					20	
92	GCA GCT	GAT	CCT	CAG	ccc	CNG	220	OTIC:	mm/c	700	220	3.00	99
93	Ala Ala												77
94				25	011	014	Ly S	141	30	1111	ASH	1111	
95									•				
96	TGG GCT	GTG	CGC	ATC	CCT	GGA	GGC	CCA	GCG	GTG	GCC	AAC	138
97	Trp Ala												200
98	35					40					45		
99													
.00													
.01	AGT GTG	GCA	CGG	AAG	CAT	GGG	TTC	CTC	AAC	CTG	GGC	CAG	177
.02	Ser Val	Ala	Arg	Lys	His	Gly	Phe	Leu	Asn	Leu	Gly	Gln	
.03			50					55					
.04													
.05	ATC TTC												216
.06	Ile Phe	Gly	Asp	Tyr	Tyr	His	Phe	Trp	His	Arq	Glv	Val	

Raw Sequence Listing

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107	60					65					70			
	80					05					70			
108														
109														
110	ACG	AAG	CGG	TCC	CTG	TCG	CCT	CAC	CGC	CCG	CGG	CAC	AGC	255
111	Thr	Lys	Arg	Ser	Leu	Ser	Pro	His	Arg	Pro	Arg	His	Ser	
112		_	75					80	_		_		85	
113														
114														
115	CGG	CTG	CAG	NCC	CAG	CCT	CAA	CTA	CNC	TCC	CTC	C 3 3	CAG	294
116														274
	Arg	Leu	GIII	Arg	Glu	PIO	GIH	val	GIII		ren	GIU	GIN	
117					90					95				
118														
119													CAG	333
120	Gln	Val	Ala	Lys	Arg	Arg	Thr	Lys	Arg	Asp	Val	Tyr	Gln	
121		100					105					110		
122														
123	GAG	CCC	ACA	GAC	CCC	AAG	TTT	CCT	CAG	CAG	TGG	TAC	CTG	372
124					Pro									
125				115		•			120			-4 -		
126														
127	тст	CCT	GTC	аст	CAG	CGG	GAC	CTC	חתת	СТС	770	CCC	ccc	411
128					Gln									411
		GIY	VAI	THE	GIII		ASP	reu	ASII	AHI	_	AIA	ATA	
129	125					130					135			
130														
131					TAC									450
132	Trp	Ala	Gln	Gly	Tyr	Thr	Gly	His	Gly	Ile	Val	Val	Ser	
133			140					145					150	
134														
135	ATT	CTG	GAC	GAT	GGC	ATC	GAG	AAG	AAC	CAC	CCC	GAC	TTG	489
136					Gly									
137			-	-	155			-		160		•		
138														
139	GCA	GGC	ДДТ	тат	GAT	ССТ	GGG	GCC	AGT	тт	САТ	GTC	ידית מ	528
140					Asp									320
141	VIG	165	АБЦ	TAT	ASP	PIG		MIA	Ser	Phe	Asp		ASII	
		103					170					175		
142														
143					GAC									567
144	Asp	Gln	Asp	Pro	Asp	Pro	Gln	Pro	Arg	Tyr	Thr	Gln	Met	
145				180					185					
146														
147	AAT	GAC	AAC	AGG	CAC	GGC	ACA	CGG	TGT	GCG	GGG	GAA	GTG	606
148	Asn	Asp	Asn	Arq	His	Gly	Thr	Arq	Cvs	Ala	Glv	Glu	Val	
149	190	_		_		195		_	-		200			
150														
151	GCT	GCC	GТG	GCC	AAC	AAC	ССТ	GTC	ጥርጥ	ርርጥ	GTЪ	CCT	CTC	645
152													Val .	
153	mid	TTG		utq	voll	noll	GTÅ		Cy S	GTÅ	AST	GTĀ		
			205					210					215	
154														_
155					CGC									684
156	Ala	Tyr	Asn	Ala	Arg	Ile	Gly	Gly	Val	Arg	Met	Leu	Asp	
157					220					225				
158														
159	GGC	GAG	GTG	ACA	GAT	GCA	GTG	GAG	GCA	CGC	TCG	CTG	GGC	723
				_										

Raw Sequence Listing

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160 161	Gly	Glu 230	Val	Thr	Asp	Ala	Val 235	Glu	Ala	Arg	Ser	Leu 240	Gly	
162														
163													TGG	762
164	Leu	Asn	Pro	Asn	His	Ile	His	Ile	Tyr	Ser	Ala	Ser	Trp	
165				245					250					
166														
167				GAT										801
168		Pro	Glu	Asp	Asp	_	Lys	Thr	Val	Asp	_	Pro	Ala	
169	255					260					265			
170	CCC	CTC.	000	030	C3.C	000	mmo	mma	00m	000		300	010	040
171 172				GAG Glu										840
173	ALY	Leu	270	GIU	GIU	MIG	PHG	275	Arg	GIĀ	vaı	ser		
174			210					2/3					280	
175	GGC	CGA	aca	GGG	СТС	ccc	TCC	አጥሮ	the state of the s	GTC	TOO	CCC	mee	879
176				Gly										0/7
177	1	••••	0-1	011	285	011	561	110	. 110	290	11p	AIG	361	
178					205					270				
179	GGG	AAC	GGG	GGG	CGG	GAA	САТ	GAC	AGC	TGC	AAC	TGC	GAC	918
180				Gly										710
181	4	295		2	5		300			-1-		305		
182														
183	GGC	TAC	ACC	AAC	AGT	ATC	TAC	ACG	CTG	TCC	ATC	AGC	AGC	957
184				Asn										
185	_	-		310			•		315					
186														
187	GCC	ACG	CAG	TTT	GGC	AAC	GTG	CCG	TGG	TAC	AGC	GAG	GCC	996
188	Ala	Thr	Gln	Phe	Gly	Asn	Val	Pro	Trp	Tyr	Ser	Glu	Ala	
189	320					325					330			
190														
191													AAC	1035
192	Cys	Ser		Thr	Leu	Ala	Thr	Thr	Tyr	Ser	Ser	Gly	Asn	
193			335					340					345	
194														
195													CAG	1074
196 197	GIN	Asn	GIU	Lys		He	Val	Thr	Thr	_	Leu	Arg	Gln	
198					350					355				
199	770	mac	3.00	CAC	mom	C 3 C	3.00	000	300	m as				
200				GAG Glu										1113
201	ny s	360	1111	GIU	Ser	птр	365	GTÅ	Int	Ser	WIR	370	AIA	
202		500					303					370		
203	CCC	тта	GCA	GCC	GGC	ATC	<u>አ</u> ጥጥ	CCT	СТС	ACC	СТС	GNG	GCC	1152
204				Ala										1132
205				375	-1				380		Dou	GIU	nza	
206														
207	AAT	AAG	AAC	CTC	ACA	TGG	CGG	GAC	ATG	CAA	CAC	CTG	GTG	1191
208				Leu										
209	385	-				390	_				395		-	
210														
211				TCG										1230
212				Ser										
													_	

Raw Sequence Listing

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213			400					405					410	
214														
215													TCA	1269
216	тгр	AIA	Thr	Asn	_	Val	GIĀ	Arg	гĀг		ser	HIS	ser	
217 218					415					420				
219	mam	000	ma c	000	com	mma	030	003	000	000	3 ma	omo.	000	1200
220													GCC	1308
221	TÄT	425	TÄT	Gly	Leu	Leu	430	MIN	GIY	ATG	Met	435	AIA	
222		423					#20					433		
223	СТС	GCC	CAG	א ממ	таа	ACC	ACA	GTC	GCC	ccc	CAG	cca	AAG	1347
224				Asn										1241
225				440				741	445	110	0111	nry	ny o	
226														
227	TGC	ATC	ATC	GAC	ATC	CTC	ACC	GAG	ccc	AAA	GAC	ATC	GGG	1386
228				Asp										
229	450			•		455				-4-	460		1	
230														
231	AAA	CGG	CTC	GAC	CTC	CGG	AAC	ACC	GTG	ACC	GCG	TCC	CTG	1425
232	Lys	Arg	Leu	Glu	Val	Arg	Lys	Thr	Val	Thr	Ala	Cys	Leu	
233			465				_	470				_	475	
234														
235													CAG	1464
236	Gly	Glu	Pro	Asn	His	Ile	Thr	Arg	Leu	Glu	His	Ala	Gln	
237					480					485				
238														
239													CTG	1503
240	Ala		Leu	Thr	Leu	Ser		Asn	Arg	Arg	Gly		Leu	
241		490					495					500		
242														
243 244													ACC	1542
245	ATA	116	HIS	Leu	vai	ser	Pro	Met	_	Thr	Arg	Ser	Thr	
246				505					510					
247	СТС	CTC	CCN	acc	300	CCA	CAM	030	mag	maa	003	0 B M	GGG	1501
248				Ala										1581
249	515	LCu	ALG	nia	ALY	520	птэ	veh	TYL	Ser	525	wsb	GIY	
250						520					323			
251	TTT	AAT	GAC	TGG	GCC	TTC	ATG	ACA	ACT	САТ	TCC	TGG	GAT	1620
252				Trp										1010
253			530	•				535					540	
254								,						
255	GAC	GAT	CCC	TCT	GGG	GAG	TGG	GTC	CTA	GAG	ATT	GAA	AAC	1659
256				Ser										
257		_			545		_			550				
258														
259				GCC										1698
260	Thr	Ser	Glu	Ala	Asn	Asn	Tyr	Gly	Thr	Leu	Thr	Lys	Phe	
261		555					560					565		
262														
263				CTC										1737
264	Thr	Leu	Val	Leu	Tyr	Gly	Thr	Ala		Glu	Gly	Leu	Pro	
265				570					575					

Raw Sequence Listing

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266														
267													TCC	1776
268		Pro	Pro	Glu	Ser		Gly	Cys	Lys	Thr	Leu	Thr	Ser	
269	580					585					590			
270														
271								GAG						1815
272	Ser	Gln		Cys	Val	Val	Cys	Glu	Glu	Gly	Phe	Ser	Leu	
273			595					600					605	
274														
275								CAC						1854
276	His	Gln	Lys	Ser	_	Val	Gln	Asn	Cys		Pro	Gly	Phe	
277					610					615				
278														
279								CAC						1893
280	Ala		Gln	Val	Leu	Asp		Asn	Tyr	Ser	Thr		Asn	
281		620					625					630		
282														
283													TGC	1932
284	Asp	Val	Glu		Ile	Arg	Ala	Ser		Cys	Ala	Pro	Cys	
285				635					640					
286	63.6													
287													ACA	1971
288 289		AIA	ser	Cys	ATA		Cys	Gln	GTĀ	Pro		Leu	Thr	
290	645					650					655			
291	CNC	maa	cmc.	300	maa		300							
292													CCT	2010
293	wsb	Cys	660	ser	Cys	Pro	ser	His	AIA	ser	Leu	Asp		
294			000					665					670	
295	GTG	GAG	CAG	ъст	TCC	TICC	ccc	CAA	300	CRC	300	300	003	2040
296								Gln						2049
297	•	GIU	GIH	1111	675	261	ALY	GIII	Ser	680	261	ser	Arg	
298					0,3					000				
299	GAG	TCC	CCG	CCA	CAG	CAG	CAG	CCA	CCT	cca	CTG	CCC	ccc	2088
300								Pro						2000
301		685		110	011	GIII	690	710	FIO	ALY	Dea	695	PIG	
302		•••					0,0					073		
303	GAG	GTG	GAG	GCG	GGG	CAA	CGG	CTG	CGG	GCA	GGG	СТС	CTG	2127
304								Leu						212,
305				700	1				705		1		200	
306														
307	CCC	TCA	CAC	CTG	CCT	GAG	GTG	GTG	GCC	GGC	CTC	AGC	TGC	2166
308								Val						
309	710					715				2	720		-1-	
310														
311	GCC	TTC	ATC	GTG	CTG	GTC	TTC	GTC	ACT	GTC	TTC	CTG	CTC	2205
312								Val						-
313			725			*		730					735	
314														
315	CTG	CAG	CTG	CGC	TCT	GGC	TTT	AGT	TTT	CGG	GGG	GTG	AAG	2244
316								Ser						
317				_	740	-				745	•	-	•	
318														

Raw Sequence Listing

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319	GTG TAC ACC ATG GAC CGT GGC CTC ATC TCC TAC AAG GGG 2283
320	Val Tyr Thr Met Asp Arg Gly Leu Ile Ser Tyr Lys Gly
321	750 755 760
322	
323	CTG CCC CCT GAA GCC TGG CAG GAG GAG TGC CCG TCT GAC 2322
324	Leu Pro Pro Glu Ala Trp Gln Glu Glu Cys Pro Ser Asp
325	765 770
326	
327	TCA GAA GAG GAC GAG GGC CGG GGC GAG AGG ACC GCC TTT 2361
328	Ser Glu Glu Asp Glu Gly Arg Gly Glu Arg Thr Ala Phe
329	775 780 785
330	
331	ATC AAA GAC CAG AGC GCC CTC TGA 2385
332	Ile Lys Asp Gln Ser Ala Leu End
333	790
334	
335	
336	(3) INFORMATION FOR SEQ ID NO:2
337	
338	(i) SEQUENCE CHARACTERISTICS:
339	
340	(A) LENGTH: 794 amino acids
341	
342	(B) TYPE: amino acids
343	
344 345	(C) STRANDEDNESS: single
346	(D) Morelean walne
347	(D) Topology: unknown
348	(ii) MOLECULE TYPE: furin
349	(II) MOLECULE IIPE: IUFIN
350	(iii) HYPOTHETICAL: no
351	(111) HITOINDITCAD. NO
352	(iv) ANTI-SENSE: no
353	
354	(v) PUBLICATION INFORMATION: A.M.W. van den Ouweland et al,
355	Nucl. Acids. Res., 18:664 (1990)
356	11021 110201 11001/ 201002 (2770)
357	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:2
358	, ,
359	
360	Met Glu Leu Arg Pro Trp Leu
361	1 5
362	
363	Leu Trp Val Val Ala Ala Thr Gly Thr Leu Val Leu Leu
364	10 15 20
365	
366	Ala Ala Asp Ala Gln Gly Gln Lys Val Phe Thr Asn Thr
367	25 30
368	
369	Trp Ala Val Arg Ile Pro Gly Gly Pro Ala Val Ala Asn
370	35 40 45
371	

Raw Sequence Listing

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372 373 374	Ser	Val	Ala	Arg 50	Lys	His	Gly	Phe	Leu 55	Asn	Leu	Gly	Gln
375 376	Ile 60	Phe	Gly	Asp	Tyr	Tyr 65	His	Phe	Trp	His	Arg 70	Gly	Val
377 378 379 380	Thr	Lys	Arg 75	Ser	Leu	Ser	Pro	His 80	Arg	Pro	Arg	His	Ser 85
381 382 383	Arg	Leu	Gln	Arg	Glu 90	Pro	Gln	Val	Gln	Trp 95	Leu	Glu	Gln
384 385 386	Gln	Val 100	Ala	Lys	Arg	Arg	Thr 105	Lys	Arg	Asp	Val	Tyr 110	Gln
387 388 389 390	Glu	Pro	Thr	Asp 115	Pro	Lys	Phe	Pro	Gln 120	Gln	Trp	Tyr	Leu
391 392 393	Ser 125	Gly	Val	Thr	Gln	Arg 130	Asp	Leu	Asn	Val	Lys 135	Ala	Ala
394 395 396	Trp	Ala	Gln 140	Gly	Tyr	Thr	Gly	His 145	Gly	Ile	Val	Val	Ser 150
397 398 399	Ile	Leu	Asp	Asp	Gly 155	Ile	Glu	Lys	Asn	His 160	Pro	Asp	Leu
400 401 402		165					170				Asp	175	
404 405				180					185		Thr		
406 407 408	190					195			_		Gly 200		
409 410 411			205					210			Val		215
412 413 414 415					220					225	Met		Asp
416 417 418		230					235					240	-,
419 420 421				245					250		Ala		_
422 423 424	255			_	_	260	_			-	265 Val		
	9	Lou	nia	JIU	GIU	ura	LHG	LUE	Ary	GIĀ	AGT	SEL	GIH

Raw Sequence Listing

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425			270					275					280
426		_			_			_					
427	GIĀ	Arg	Gly	Gly		Gly	Ser	Ile	Phe		Trp	Ala	Ser
428					285					290			
429			-1		_			_	_	_	_	_	_
430	GTA		GTĀ	GIA	Arg	Glu		Asp	Ser	Cys	Asn	_	Asp
431		295					300					305	
432	61	60	mh	•		-1-				_			
433 434	GIY	TYF	Thr	310	ser	TTE	TYP	Thr		ser	TIE	ser	Ser
435				310					315				
436													
437	210	mb	C1-	Dho	ai	B ===	***	B	M	M		61	
438	320	THE	GIII	FIIG	GIĀ	325	AHI	PIO	тгр	TYP	330	GIU	Ala
439	320					323					330		
440	Cve	Sa*	Sar	ምb ∽	Lou	210		mh ~	m	C0=	C	~1	Asn
441	Cys	561	335	1111	Leu	ALG	1111	340	TYL	Ser	261	GIY	345
442			333					340					343
443	Gln	Asn	Glu	T.ve	Gln	۲l۵	Va 1	ም ~	Th ≻	Acn	Lou	A ra	Gln
444		*****	O_Lu	Lys	350	110	Val		1111	355	Пеп	ALY	GIII
445					-					555			
446	Lvs	Cvs	Thr	Glu	Ser	His	Thr	Glv	Thr	Ser	Ala	Ser	Ala
447	-4 -	360					365	1				370	
448												• • • • • • • • • • • • • • • • • • • •	
449	Pro	Leu	Ala	Ala	Gly	Ile	Ile	Ala	Leu	Thr	Leu	Glu	Ala
450				375	•				380				
451													
452	Asn	Lys	Asn	Leu	Thr	Trp	Arg	Asp	Met	Gln	His	Leu	Val
453	385	_				390		_			395		
454													
455	Val	Gln	Thr	Ser	Lys	Pro	Ala	His	Leu	Asn	Ala	Asn	Asp
456			400					405					410
457													
458	Trp	Ala	Thr	Asn	Gly	Val	Gly	Arg	Lys	Val	Ser	His	Ser
459					415					420			
460													
461	Tyr	Gly	Tyr	Gly	Leu	Leu		Ala	Gly	Ala	Met	Val	Ala
462		425					430					435	
463	_			_	_		_						
464	Leu	Ala	Gln	Asn	Trp	Thr	Thr	Val		Pro	Gln	Arg	Lys
465				440					445				
466 467	a			_		_			_	_			
467		116	He	Asp	IIe		Thr	Glu	Pro	Lys		Ile	Gly
469	450					455					460		
470	T.ven	A	T	01	T7- 1	N	T	m1	17 - 1	m\	37 -	0	.
471	TÀ 2	arg	465	GIU	AST	wrg	Lys		VAI	Thr	AIA	cys	
472			403					470					475
473	Glw	G1	Dra) en	Hie	Tla	ጥኤ~	A	T 6	G1	w: ~	21-	Gln
474	CIY	JIU	FIU	von	480	116	THE	arg	Leu	485	UTR	MIS	GID
475					-50					403			
476	Ala	Ara	Leu	ጥ ኮ ~	T.en	Ser	ጥታ •	Len	Ar~	A ~~	<u>دا</u>	Ac-	Leu
477		490	u		u	261	495	aou	Y	A	GTÄ	500	neu
							-//					300	

Raw Sequence Listing

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478													
479		Ile	His		Val	Ser	Pro	Met	_	Thr	Arg	Ser	Thr
480				505					510				
481			_										
482		Leu	Ala	Ala	Arg		His	Asp	Tyr	Ser	Ala	Asp	Gly
483	515					520					525		
484													
485	Phe	Asn	Asp	Trp	Ala	Phe	Met	Thr	Thr	His	Ser	Trp	Asp
486			530					535					540
487													
488	Glu	Asp	Pro	Ser	Gly	Glu	Trp	Val	Leu	Glu	Ile	Glu	Asn
489					545		-			550			
490													
491	Thr	Ser	Glu	Ala	Asn	Asn	Tyr	Gly	Thr	Leu	Thr	Lvs	Phe
492		555					560	-				565	
493													
494	Thr	Leu	Val	Leu	Tvr	Glv	Thr	Ala	Pro	Glu	Glv	Leu	Pro
495				570	-1-	1			575		1		•••
496													
497		Pro	Pro	Glu	Ser	Ser	Glv	Cvs	T.ve	ጥክ ፦	T.011	Thr	Sar
498						585	1	O, O	-1 3		590		Der
499											370		
500		Gln	Ala	Cvs	Va 1	Va 1	Cve	Glu	Gl 11	@1 w	Dha	So~	Len
501			595	-10			0,0	600	O1u	0.1	1 110	561	605
502			575					000					005
503		Gln	Lys	Ser	Cve	Va 1	Gln	Acn	C** C	Dwo	Dwa	C1	Dho
504		U 111	TJ 3	361	610	Val	GIH	nou	Cys	615	PIU	GIY	PHE
505					010					013			
506		Dwa	61 -	TF- 1	T		m\	•			-1		_
507		620	Gln	Val	Leu	Asp		Asn	Tyr	ser	Thr		Asn
508		620					625					630	
509		17- 1	G3	m>	-1 -					_		_	_
510		VAI	Glu		TIE	Arg	ALA	ser		Cys	Ala	Pro	Cys
511				635					640				
511		81-	G	G		m\				_		_	
513	645	ATA	Ser	Cys	AIA		Cys	GIN	GTÅ	Pro		Leu	Thr
514						650					655		
		a				_	_			_	_	_	_
515	-	Cys	Leu	ser	Cys	Pro	Ser		Ala	Ser	Leu	Asp	
516			660					665					670
517													
518		Glu	Gln	Thr		Ser	Arg	Gln	Ser		Ser	Ser	Arg
519					675					680			
520													
521			Pro	Pro	Gln	Gln		Pro	Pro	Arg	Leu	Pro	Pro
522		685					690					695	
523													
524	Glu	Val	Glu		Gly	Gln	Arg	Leu	Arg	Ala	Gly	Leu	Leu
525				700					705				
526													
527		Ser	His	Leu	Pro	Glu	Val	Val	Ala	Gly	Leu	Ser	Cys
528	710					715				-	720		_
529													
530	Ala	Phe	Ile	Val	Leu	Val	Phe	Val	Thr	Val	Phe	Leu	Val

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531			725					730					735
532													
533	Leu	Gln	Leu	Arg	Ser	Gly	Phe	Ser	Phe	Arg	Gly	Val	Lys
534				_	740	-				745	_		_
535													
536	Val	Tyr	Thr	Met	Asp	Arg	Gly	Leu	Ile	Ser	Tyr	Lys	Gly
537		750			_	_	755				-	760	•
538													
539	Leu	Pro	Pro	Glu	Ala	Trp	Gln	Glu	Glu	Cys	Pro	Ser	Asp
540				765		_			770	_			-
541													
542	Ser	Glu	Glu	Asp	Glu	Gly	Arg	Gly	Glu	Arg	Thr	Ala	Phe
543	775			_		780	_	_		-	785		
544													
545													
546	Ile	Lys	Asp	Gln	Ser	Ala	Leu						
547		-	790										

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SEQUENCE VERIFICATION REPORT PATENT APPLICATION US/07/621,092

DATE: 01/24/91 TIME: 08:58:37

LINE ERROR

ORIGINAL TEXT

36 Wrong application Serial Number

Wrong Filing Date 38

Wrong Classification 40

Extra Level-0 Records 80

355 Extra Level-O Records

(A) APPLICATION NUMBER: 07/621092
(B) FILING DATE: 26-NOV-1990
(C) CLASSIFICATION: 424
al, Nucl. Acids. Res., 18:664 (1990)

Nucl. Acids. Res., 18:664 (1990)

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SEQUENCE MISSING ITEM REPORT PATENT APPLICATION US/07/621,092

MANDATORY IDENTIFIER THAT WAS NOT FOUND

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SEQUENCE CORRECTION REPORT PATENT APPLICATION US/07/621,092

DATE: 01/24/91 TIME: 08:58:37

LINE ORIGINAL TEXT

CORRECTED TEXT

48	(viii) ATTORNEY/AGENT INFORMATION	(viii) ATTORNEY/AGENT INFORMATION:
5 9	(2) INFORMATION FOR SEQ ID NO:1	(2) INFORMATION FOR SEQ ID NO:1:
82	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:1	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:1:
336	(3) INFORMATION FOR SEQ ID NO:2	(3) INFORMATION FOR SEQ ID NO:2:
357	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:2	(vi) SEQUENCE DESCRIPTION: SEQ ID NO:2: